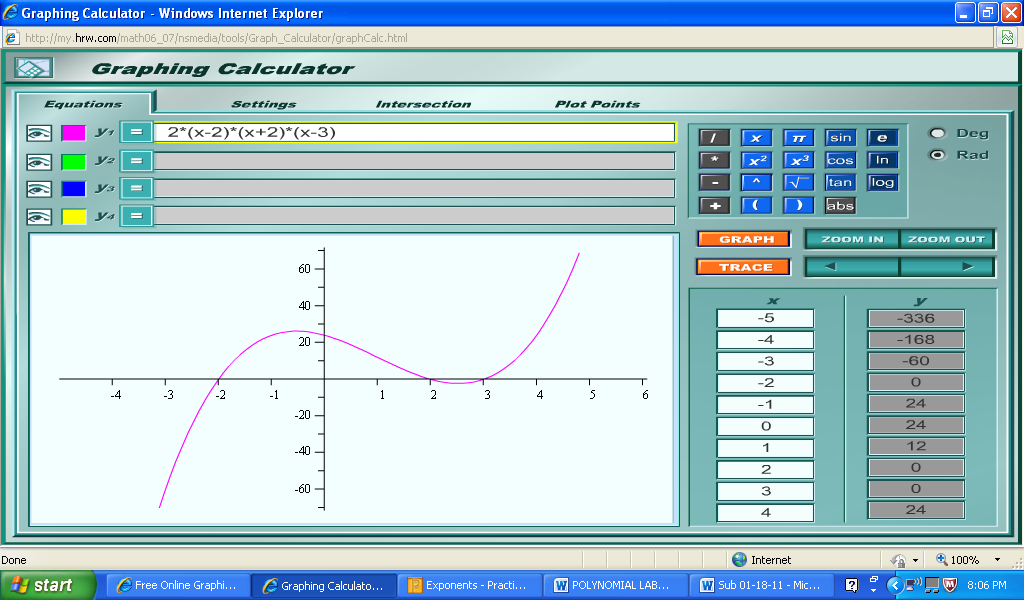
**P2(x) = 2(x – 2)(x + 2)(x-3)**

|  |  |
| --- | --- |
| **Window** | **[-4, 6] x [-70, 70]** |
| **y-intercept** | **X=0 (0, -50)** |
| **x-intercept**  **roots**  **zeros**  **solutions** | **X=-2 (-2, 0)**  **X=2 (2, 0)**  **X=3 (3, 0)** |
| **Turning Points**  **(extrema)** | **Maximum using calculator**  **(-0.528, 26.257)**  **Minimum using calculator**  **(2.528, -2.257)** |

 The function is of degree 3.

There are 3 roots, and 2 turning points (3-1=2)

To find max/min:

Enter the equation in Y1, adjust the window (the above might help).

Press 2nd TRACE (CALC)

Enter MAX or MIN

Follow the onscreen instructions; select a left bound and a right bound